

Release notes for ENDF/B Development n-046_Pd_107
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=4640, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=4640, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      252 TO      325
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=4640, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=4640, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      252
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4640, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      327
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      729
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      759
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      789
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      809
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 821

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 827

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 841

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 32
SECTION 3/ 32 NOT IN DIRECTORY RECORD NUMBER 851

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 859

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 879

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 898

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 916

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 55 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 55 | RECORD NUMBER | 934 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 56 | RECORD NUMBER | 952 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 57 | RECORD NUMBER | 969 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 58 | RECORD NUMBER | 986 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 59 | RECORD NUMBER | 1003 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 60 | RECORD NUMBER | 1019 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 61 | RECORD NUMBER | 1035 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 62 | RECORD NUMBER | 1050 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 63 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 63 | RECORD NUMBER | 1065 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 64 | RECORD NUMBER | 1080 |
| SECTION 3/ 64 NOT IN DIRECTORY | | |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 65 | RECORD NUMBER | 1094 |
| SECTION 3/ 65 NOT IN DIRECTORY | | |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 66 | RECORD NUMBER | 1108 |
| SECTION 3/ 66 NOT IN DIRECTORY | | |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 67 | RECORD NUMBER | 1121 |
| SECTION 3/ 67 NOT IN DIRECTORY | | |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 68 | RECORD NUMBER | 1134 |
| SECTION 3/ 68 NOT IN DIRECTORY | | |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 69 | RECORD NUMBER | 1146 |
| SECTION 3/ 69 NOT IN DIRECTORY | | |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 70 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 70 | RECORD NUMBER | 1158 |
| SECTION 3/ 70 NOT IN DIRECTORY | | |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT= 91 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT= 91 | RECORD NUMBER | 1169 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT=102 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT=102 | RECORD NUMBER | 1180 |
| SECTION 3/102 NOT IN DIRECTORY | | |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT=103 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT=103 | RECORD NUMBER | 1205 |
| SECTION 3/103 NOT IN DIRECTORY | | |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT=104 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT=104 | RECORD NUMBER | 1220 |
| SECTION 3/104 NOT IN DIRECTORY | | |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT=105 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT=105 | RECORD NUMBER | 1232 |
| SECTION 3/105 NOT IN DIRECTORY | | |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 3, MT=107 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 3, MT=107 | RECORD NUMBER | 1243 |
| SECTION 3/107 NOT IN DIRECTORY | | |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 2 (0): Directory (b)
- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 2 | RECORD NUMBER | 1260 |
| SECTION 4/ 2 NOT IN DIRECTORY | | |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 16 | RECORD NUMBER | 1459 |
| SECTION 4/ 16 NOT IN DIRECTORY | | |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 17 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 17 | RECORD NUMBER | 1470 |
| SECTION 4/ 17 NOT IN DIRECTORY | | |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 22 | RECORD NUMBER | 1481 |
| SECTION 4/ 22 NOT IN DIRECTORY | | |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 28 | RECORD NUMBER | 1492 |
| SECTION 4/ 28 NOT IN DIRECTORY | | |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 32 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 32 | RECORD NUMBER | 1503 |
| SECTION 4/ 32 NOT IN DIRECTORY | | |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 51 | RECORD NUMBER | 1514 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 52 | RECORD NUMBER | 1542 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 53 | RECORD NUMBER | 1567 |
| SECTION 4/ 53 NOT IN DIRECTORY | | |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 54 | RECORD NUMBER | 1595 |
| SECTION 4/ 54 NOT IN DIRECTORY | | |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 55 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 55 | |
| | SECTION 4/ 55 NOT IN DIRECTORY | RECORD NUMBER 1623 |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 56 | |
| | SECTION 4/ 56 NOT IN DIRECTORY | RECORD NUMBER 1651 |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 57 | |
| | SECTION 4/ 57 NOT IN DIRECTORY | RECORD NUMBER 1679 |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 58 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 58 | |
| | SECTION 4/ 58 NOT IN DIRECTORY | RECORD NUMBER 1707 |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 59 | |
| | SECTION 4/ 59 NOT IN DIRECTORY | RECORD NUMBER 1735 |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 60 | |
| | SECTION 4/ 60 NOT IN DIRECTORY | RECORD NUMBER 1763 |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 61 | |
| | SECTION 4/ 61 NOT IN DIRECTORY | RECORD NUMBER 1791 |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 62 | |
| | SECTION 4/ 62 NOT IN DIRECTORY | RECORD NUMBER 1818 |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 63 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 63 | RECORD NUMBER | 1845 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 64 | RECORD NUMBER | 1870 |
| SECTION 4/ 64 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 65 | RECORD NUMBER | 1897 |
| SECTION 4/ 65 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 66 | RECORD NUMBER | 1924 |
| SECTION 4/ 66 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 67 | RECORD NUMBER | 1949 |
| SECTION 4/ 67 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 68 | RECORD NUMBER | 1974 |
| SECTION 4/ 68 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 69 | RECORD NUMBER | 2001 |
| SECTION 4/ 69 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 70 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 70 | RECORD NUMBER | 2028 |
| SECTION 4/ 70 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 4, MT= 91 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 4, MT= 91 | RECORD NUMBER | 2052 |
| SECTION 4/ 91 NOT IN DIRECTORY | | |
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 5, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 5, MT= 16 | RECORD NUMBER | 2077 |
| SECTION 5/ 16 NOT IN DIRECTORY | | |
65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 5, MT= 17 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 5, MT= 17 | RECORD NUMBER | 2149 |
| SECTION 5/ 17 NOT IN DIRECTORY | | |
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 5, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 5, MT= 22 | RECORD NUMBER | 2175 |
| SECTION 5/ 22 NOT IN DIRECTORY | | |
67. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 5, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 5, MT= 28 | RECORD NUMBER | 2361 |
| SECTION 5/ 28 NOT IN DIRECTORY | | |
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 5, MT= 32 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 5, MT= 32 | RECORD NUMBER | 2444 |
| SECTION 5/ 32 NOT IN DIRECTORY | | |
69. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF= 5, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF= 5, MT= 91 | RECORD NUMBER | 2494 |
| SECTION 5/ 91 NOT IN DIRECTORY | | |
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF=33, MT= 2 (0): Directory (b)
- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=4640, MF=33, MT= 2 | RECORD NUMBER | 2637 |
| SECTION 33/ 2 NOT IN DIRECTORY | | |
71. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF=33, MT= 4 (0): Directory (b)

ERROR(S) FOUND IN MAT=4640, MF=33, MT= 4
SECTION 33/ 4 NOT IN DIRECTORY RECORD NUMBER 2727

72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF=33, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=4640, MF=33, MT= 16
SECTION 33/ 16 NOT IN DIRECTORY RECORD NUMBER 2786

73. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4640, MF=33, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=4640, MF=33, MT=102
SECTION 33/102 NOT IN DIRECTORY RECORD NUMBER 2801

• **psyche** Warnings:

- Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 107. L = 0 / AT RESONANCE ENERGY 4.13100E+01 EV. THE GAMMA WIDTH 3.15400E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.28741E-01 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 107. L = 0
AT RESONANCE ENERGY 4.13100E+01 EV. THE GAMMA WIDTH 3.15400E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.28741E-01 (0): Gamma width

- Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 107. L = 0 / STRENGTH FUNCTION IS 1.31457E-04 / STRENGTH FUNCTION 1.31457E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

FILE 2
SECTION 151
ISOTOPE MASS = 107. L = 0
STRENGTH FUNCTION IS 1.31457E-04
STRENGTH FUNCTION 1.31457E-04
... [1 more lines]

• **fudge-4.0** Warnings:

- Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevel_BreitWigner (Error # 0): missingResonanceChannel

WARNING: Missing a channel with angular momenta combination L = 0, J = 1.0 and S = 1.0 for "capture"

- Potential scattering hasn't converted, you need more L's!
resonances / resolved (Error # 1): potentialScatteringNotConverged

WARNING: Potential scattering hasn't converged by L=0 at E=1000.0 eV, xs[0]/xs[0]=100.0% > 0.1%

- Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.43%

4. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.12%

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (n + Pd107): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (n + Pd107): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 1 ((z,n)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

8. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 2 (n[multiplicity:'2'] + Pd106): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

9. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (Pd108 + gamma): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

10. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (Pd108 + gamma): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

• fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.
reaction label 22: n[multiplicity:'2'] + Pd106 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6317584.705047607 eV vs -6.5341e6 eV!

2. Calculated and tabulated Q values disagree.
reaction label 23: n[multiplicity:'3'] + Pd105 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -15878552.07192993 eV vs -1.61012e7 eV!

3. Calculated and tabulated Q values disagree.
reaction label 24: n + H1 + Rh106 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9076238.166381836 eV vs -9292630. eV!

4. Calculated and tabulated Q values disagree.
reaction label 25: n + H2 + Rh105 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13438826.98892212 eV vs -1.35756e7 eV!

5. Calculated and tabulated Q values disagree.
reaction label 26: Pd108 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 9446876.611709595 eV vs 9223390. eV!

6. Calculated and tabulated Q values disagree.
reaction label 27: n + He4 + Ru103 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -3314886.081680298 eV vs -3531490. eV!

7. Calculated and tabulated Q values disagree.
reaction label 28: H1 + Rh107_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -503113.7158813477 eV vs -728534. eV!

8. Calculated and tabulated Q values disagree.
reaction label 29: H2 + Rh106_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6851672.065444946 eV vs -6982510. eV!

9. Calculated and tabulated Q values disagree.
reaction label 30: H3 + Rh105_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7181594.048309326 eV vs -7390460. eV!

10. Calculated and tabulated Q values disagree.
reaction label 31: He4 + Ru104_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 5586528.541778564 eV vs 5.3822e6 eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 32
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided